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* * * * * Welcome to STN International * * * * *

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alerts (SDIs) affected
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NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
February 2005

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS STN Operating Hours Plus Help Desk Availability
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Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:06:13 ON 11 JAN 2005

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'STNGUIDE' ENTERED AT 13:06:25 ON 11 JAN 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 7, 2005 (20050107/UP).

```
=> FIL HOME
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.06        0.27
```

FILE 'HOME' ENTERED AT 13:06:29 ON 11 JAN 2005

```
=> file re
'RE' IS AN AMBIGUOUS FILE OR CLUSTER NAME
REACTION      - Reactions Cluster
RESEARCH      - Research Cluster
REGISTRY      - The CAS Registry File of substances
ENTER FILE OR CLUSTER NAME (IGNORE):reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.21        0.48
```

FILE 'REGISTRY' ENTERED AT 13:06:46 ON 11 JAN 2005
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 9 JAN 2005 HIGHEST RN 810659-29-1
DICTIONARY FILE UPDATES: 9 JAN 2005 HIGHEST RN 810659-29-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> s
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):end
SEARCH ENDED BY USER
```

```
=> e se-methyl-l-cysteine/cn
E1      1      SE-METHYL P-METHOXYSELENOBENZOATE/CN
E2      1      SE-METHYL P-METHYLSELENOBENZOATE/CN
E3      0 --> SE-METHYL-L-CYSTEINE/CN
E4      1      SE-METHYLSELENOCYSTEINE/CN
E5      1      SE-METHYLSELENOMETHIONINE/CN
E6      1      SE-N-DODECYL N,N-DIETHYLSELENOCARBAMATE/CN
E7      1      SE-N-DODECYL O-ETHYL SELENOCARBONATE/CN
E8      1      SE-N-HEXADECYL N,N-DIETHYLSELENOCARBAMATE/CN
E9      1      SE-N-HEXADECYL O-ETHYL SELENOCARBONATE/CN
E10     1      SE-N-OCTADECYL N,N-DIETHYLSELENOCARBAMATE/CN
E11     1      SE-N-OCTADECYL O-ETHYL SELENOCARBONATE/CN
```


E12 1 SE-P-ETHOXYPHENYL SELENOACETATE/CN

=> e4

L1 1 SE-METHYLSELENOCYSTEINE/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 26046-90-2 REGISTRY

CN L-Alanine, 3-(methylseleno)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Alanine, 3-(methylselenyl)-, L- (8CI)

OTHER NAMES:

CN 3-(Methylseleno)-L-alanine

CN Methylseleno-L-cysteine

CN Methylselenocysteine

CN **Se-Methylselenocysteine**

FS STEREOSEARCH

MF C4 H9 N O2 Se

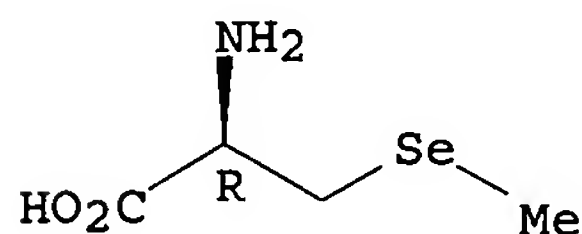
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, DDFU, DRUGU, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

99 REFERENCES IN FILE CA (1907 TO DATE)

99 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.30

7.78

FILE 'CAPLUS' ENTERED AT 13:08:00 ON 11 JAN 2005

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FILE COVERS 1907 - 11 Jan 2005 VOL 142 ISS 3
FILE LAST UPDATED: 10 Jan 2005 (20050110/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> l1

L2 99 L1

=> l1/prep

99 L1
3245018 PREP/RL
L3 10 L1/PREP
(L1 (L) PREP/RL)

=> save temp l2 secysts/a

ANSWER SET L2 HAS BEEN SAVED AS 'SECYSTS/A'

=> d l3 5-10 ti fbib abs

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI A method of using synthetic L-Se-methylselenocysteine as a nutraceutical
AN 2002:364013 CAPLUS
DN 136:369993
TI A method of using synthetic L-Se-methylselenocysteine as a nutraceutical
IN Spallholz, Julian E.; Reid, Ted W.; Walkup, Robert D.
PA Pharmase, Incorporated, USA
SO Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1205471	A1	20020515	EP 2001-103018	20010208
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			US 2000-677563	A 20001002
	EP 1077209	A1	20010221	EP 2000-117106	20000809
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			US 1999-376073	A 19990816
	US 2003083383	A1	20030501	US 2002-288024	20021105
				US 1999-376073	B2 19990816
				US 2000-677563	A3 20001002

OS CASREACT 136:369993

AB The invention describes the synthesis and use of L-Se-methylselenocysteine (I), a nutraceutical which is less toxic than L-selenomethionine towards normal cells. The synthesis involves mixing N-(tert-butoxycarbonyl)-L-serine with a dialkyl diazodicarboxylate and at least one of a trialkylphosphine, triarylphosphine and phosphite to form a mixture containing N-(tert-butoxycarbonyl)-L-serine β -lactone, addition of methylselenol or a salt, and deprotection. This synthesis significantly improves the manufacturing efficiency and utility I., a naturally occurring rare form of organic selenium. I formed in this manner may be used as a nutraceutical in the diets of humans or animals for various beneficial purposes, such as, for example, to prevent or reduce the risk of developing cancer. A bar graph which compares the effect of I and L-selenomethionine on the growth of normal rabbit fibroblasts is given.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Synthesis of Novel Se-Substituted Selenocysteine Derivatives as Potential
 Kidney Selective Prodrugs of Biologically Active Selenol Compounds:
 Evaluation of Kinetics of β -Elimination Reactions in Rat Renal
 Cytosol
 AN 1996:241974 CAPLUS
 DN 124:306525
 TI Synthesis of Novel Se-Substituted Selenocysteine Derivatives as Potential
 Kidney Selective Prodrugs of Biologically Active Selenol Compounds:
 Evaluation of Kinetics of β -Elimination Reactions in Rat Renal
 Cytosol
 AU Andreadou, Ioanna; Menge, Wiro M. P. B.; Commandeur, Jan N. M.;
 Worthington, Eduard A.; Vermeulen, Nico P. E.
 CS Leiden Amsterdam Center for Drug Research, Vrije Universiteit Amsterdam,
 Amsterdam, 1081 HV, Neth.
 SO Journal of Medicinal Chemistry (1996), 39(10), 2040-6
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB Eighteen Se-substituted selenocysteine derivs. were prepared as potential
 kidney selective prodrugs which can be activated by renal cysteine
 conjugate β -lyase to selenium-containing chemoprotectants or antitumor
 agents. Selenocysteine derivs. with aliphatic and benzylic Se-substituents
 were synthesized by reducing selenocystine to selenocysteine followed by a
 reaction with the corresponding alkyl and benzyl halogenides.
 Selenocysteine derivs. with aromatic Se-substituents were synthesized by
 reaction of β -chloroalanine with substituted phenylselenol compds.,
 which were formed by reducing substituted di-Ph diselenides by NaBH₄. The
 enzyme kinetic parameters (apparent Km and Vmax) of the β -elimination
 reaction of the selenocysteine conjugates were studied in rat renal
 cytosol. The results suggest that Se-substituted L-selenocysteine
 conjugates are extremely good substrates for renal cysteine conjugate
 β -lyases as indicated by low apparent Km and high Vmax values. The
 benzyl-substituted Se-conjugates appeared to be better substrates than the
 phenyl- and alkyl-substituted Se-conjugates. Corresponding L-cysteine
 S-conjugates were too poor substrates to obtain proper enzyme kinetics.
 Recently, local activation of cysteine S-conjugates by renal cysteine
 conjugate β -lyases was proposed as a new strategy to target antitumor
 agents to the kidney. Se-substituted selenocysteine conjugates may be
 more promising prodrugs because these are much better substrates for
 β -lyase.

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation of sulfur and selenium amino acids with microbial pyridoxal
 phosphate enzymes
 AN 1988:128044 CAPLUS
 DN 108:128044
 TI Preparation of sulfur and selenium amino acids with microbial pyridoxal
 phosphate enzymes
 AU Esaki, Nobuyoshi; Soda, Kenji
 CS Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan
 SO Methods in Enzymology (1987), 143(Sulfur Sulfur Amino Acids), 291-7
 CODEN: MENZAU; ISSN: 0076-6879
 DT Journal
 LA English
 AB The preparation of S-substituted L-homocysteines with L-methionine
 γ -lyase (I), S-substituted L-cysteines and Se-substituted
 L-selenocysteines with tryptophan synthase, L-selenocystine and
 -homocystine with O-acetylhomoserine sulphydrylase, and deuterated and
 tritiated L-methionine and S-methyl-L-cysteine with I are illustrated.

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Selenium-containing amino acids
 AN 1984:4789 CAPLUS

DN 100:4789
TI Selenium-containing amino acids
PA Mitsui Toatsu Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 58146286	A2	19830831	JP 1982-28108	19820225
	JP 02054076	B4	19901120		
				JP 1982-28108	19820225

AB A composition containing methaneselenol [6486-05-1] or benzylselenol [16645-12-8] and L-serine [56-45-1] is treated with tryptophan synthetase [9014-52-2] to produce Se-methylselenocysteine [26046-90-2] or Se-benzylselenocysteine [2575-74-8]. Thus, a composition containing L-serine 30, methaneselenol 50, pyridoxal phosphate 0.01 mM, and tryptophan synthetase 10 mg/dL was shaken at 30° for 24 h. The medium contained Se-methylselenocysteine with a mol. yield rate of 28%.

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Enzymatic synthesis of selenium-substituted L-selenocysteine with tryptophan synthase
AN 1983:590469 CAPLUS
DN 99:190469

TI Enzymatic synthesis of selenium-substituted L-selenocysteine with tryptophan synthase
AU Esaki, Nobuyoshi; Tanaka, Hidehiko; Miles, Edith W.; Soda, Kenji
CS Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan
SO FEBS Letters (1983), 161(2), 207-9
CODEN: FEBLAL; ISSN: 0014-5793

DT Journal
LA English

OS CASREACT 99:190469

AB When L-serine was incubated with the purified $\alpha 2\beta 2$ complex of tryptophan synthase (EC 4.2.1.20) from Escherichia coli in the presence of a standard reaction mixture containing α -tolueneselenol, Se-benzyl-L-5-selenocysteine was formed with a yield of 44%, based on the L-serine used. The product was identified by several physicochem. criteria, including NMR. L-Serine was also converted to Se-methyl-L-selenocysteine by this method with methaneselenol as a reactant. The yield was 16%, based on L-serine. The reactivities of selenols were compared to those of thiols in a reaction system in which L-serine was used as a substrate. The specific activities of tryptophan synthase in β -replacement reactions with α -tolueneselenol and methaneselenol were 0.96 and 0.77, resp., whereas those with α -toluenethiol and methanethiol were 3.2 and 0.61, resp. Possible reasons for these reactivities are discussed.

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
TI Selenoamino acids
AN 1979:522166 CAPLUS
DN 91:122166

TI Selenoamino acids
IN Sayuda, Kenji; Tanaka, Hidehiko
PA Ajinomoto Co., Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 54052033	A2	19790424	JP 1977-117664	19770929

JP 57008717

B4

19820217

JP 1977-117664

A 19770929

AB Eight selenoamino acids $RSe(CH_2)_nCH(NH_2)CO_2H$ (R = organic residues; $n = 1, 2$) were prepared by reaction of $R_1(CH_2)_nCH(NH_2)CO_2H$ [R_1 = halo, R_2O (R_2 = H, alkyl), R_2S , R_2SO , R_2SO_2] with $RSeH$ in aqueous media in the presence of methioninase. Thus, *Pseudomonas ovalis* IFO 3738 was cultured on 1 kg of broth (pH 7.2) containing L-methionine 0.25, urea 0.1, peptone 0.1, glycerol 0.1, KH_2PO_4 0.1, K_2HPO_4 0.1, $MgSO_4 \cdot 7H_2O$ 0.01, and yeast extract 0.025 g/dL 18 h at 28° to give 2.2 kg cells, which were crushed in H_3PO_4 buffer and the supernatant treated on DEAE-cellulose and Sephadex G-200 to give 280 mg enzyme protein. A mixture of 0.1M L-methionine (in 0.2M H_3PO_4 buffer at pH 8.0), 0.1 mL 1M PhSeH (in EtOH), 0.5 mL 10-5M pyridoxal phosphate (in 0.02M H_3PO_4 buffer at pH 8.0), and 1 mL of the enzyme liquid (50 µg of protein/mL) was kept for 2 h at 37° under N with addition of 3 + 200 µL of the enzyme liquid and 3 + 100 µL the PhSeH liquid and the whole kept 25 min at 100° to give 4.3 mg γ -phenylseleno- α -aminobutyric acid [71128-79-5].

=> piperine

813 PIPERINE

9 PIPERINES

L4

815 PIPERINE

(PIPERINE OR PIPERINES)

=> d his

(FILE 'HOME' ENTERED AT 13:06:13 ON 11 JAN 2005)

FILE 'STNGUIDE' ENTERED AT 13:06:25 ON 11 JAN 2005

FILE 'HOME' ENTERED AT 13:06:29 ON 11 JAN 2005

FILE 'REGISTRY' ENTERED AT 13:06:46 ON 11 JAN 2005

E SE-METHYL-L-CYSTEINE/CN

L1

1 E4

FILE 'CAPLUS' ENTERED AT 13:08:00 ON 11 JAN 2005

L2

99 L1

L3

10 L1/PREP

SAVE TEMP L2 SECYSTS/A

L4

815 PIPERINE

=> l2 and l4

L5

1 L2 AND L4

=> d l5 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

TI Nutritional compositions containing selenium and lithium and use thereof as anti-HIV and anti-AIDS nutraceuticals and immunostimulants.

AN 2004:1074096 CAPLUS

DN 142:37306

TI Nutritional compositions containing selenium and lithium and use thereof as anti-HIV and anti-AIDS nutraceuticals and immunostimulants.

PA Serfontein, Willem Jacob, S. Afr.

SO PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI

WO 2004107881

A1

20041216

WO 2004-ZA60

20040603

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

ZA 2003-4360 A 20030604
 ZA 2003-5112 A 20030701
 ZA 2003-6713 A 20030828
 ZA 2004-53 A 20040106

AB A nutrient composition or combination of compns. for the treatment or
 prophylaxis of infections, in particular HIV/AIDS, and for the enhancement
 of immunity, based on selenium in synergistic combinations with biol.
 absorbable sources of glutathione, alkalinity enhancing components, a source of
 sulfur, an anti-mutagenic compound and for oral use, gastrointestinal
 absorption enhancers. Special uses relate to reducing risks of
 mother-to-child transmission and treating HIV-pos. pregnant women.
 Preferred further ingredients include antiinflammatory compds. and
 nutrients which control homocysteine.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> black pepper
 232648 BLACK
 5541 BLACKS
 233735 BLACK
 (BLACK OR BLACKS)
 10034 PEPPER
 2048 PEPPERS
 10731 PEPPER
 (PEPPER OR PEPPERS)
 L6 913 BLACK PEPPER
 (BLACK(W) PEPPER)

=> d his

(FILE 'HOME' ENTERED AT 13:06:13 ON 11 JAN 2005)

FILE 'STNGUIDE' ENTERED AT 13:06:25 ON 11 JAN 2005

FILE 'HOME' ENTERED AT 13:06:29 ON 11 JAN 2005

FILE 'REGISTRY' ENTERED AT 13:06:46 ON 11 JAN 2005
 E SE-METHYL-L-CYSTEINE/CN

L1 1 E4

FILE 'CAPLUS' ENTERED AT 13:08:00 ON 11 JAN 2005

L2 99 L1
 L3 10 L1/PREP
 SAVE TEMP L2 SECYSTS/A
 L4 815 PIPERINE
 L5 1 L2 AND L4
 L6 913 BLACK PEPPER

=> l2 and l6

L7 0 L2 AND L6

=> pepper

10034 PEPPER
 2048 PEPPERS

L8 10731 PEPPER
(PEPPER OR PEPPERS)

=> 12 and 18

L9 0 L2 AND L8

=> save temp all prosesht/1

L# LIST L1-L9 HAS BEEN SAVED AS 'PROSESHT/L'

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

43.75

51.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-5.11

-5.11

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:29:03 ON 11 JAN 2005